

FIG. 3

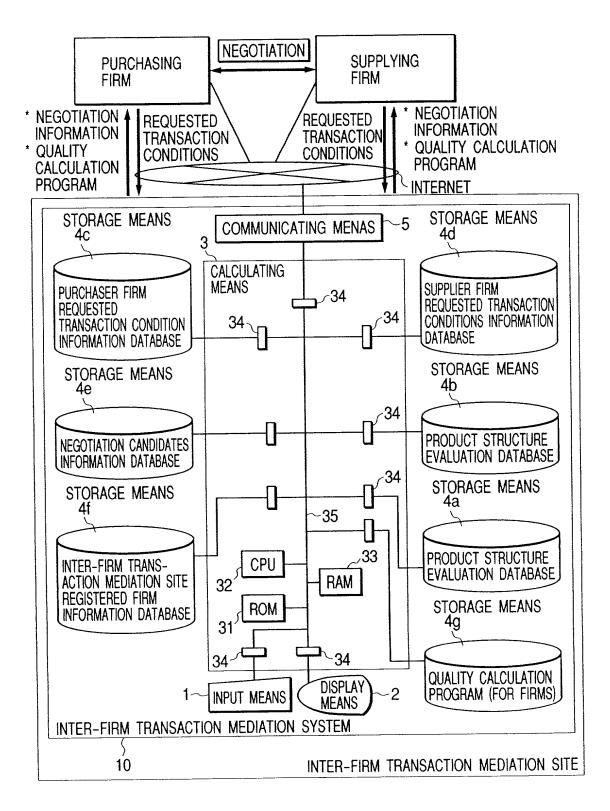


FIG. 4

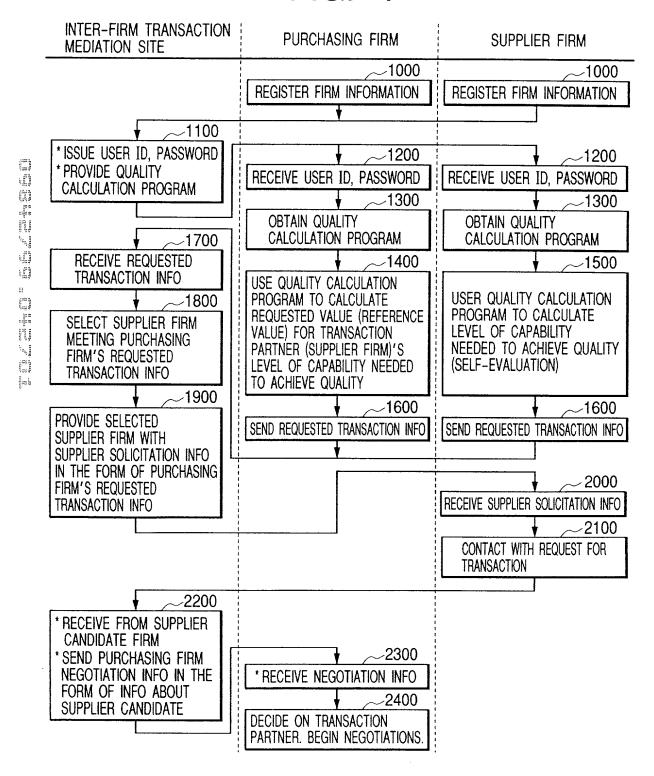
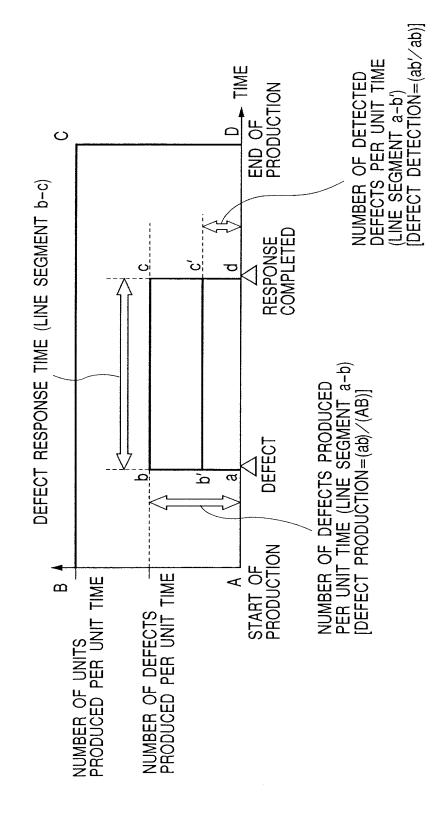
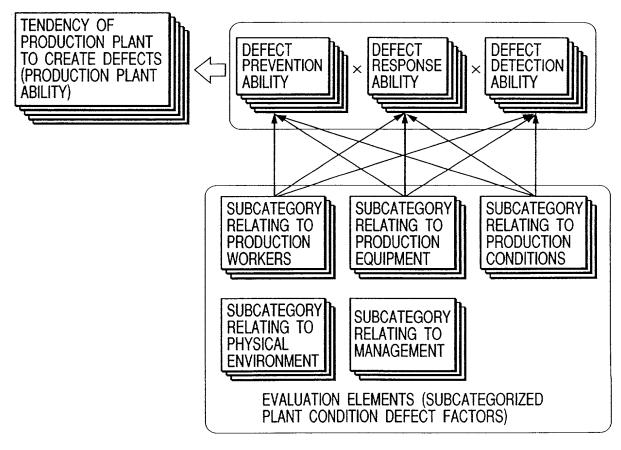
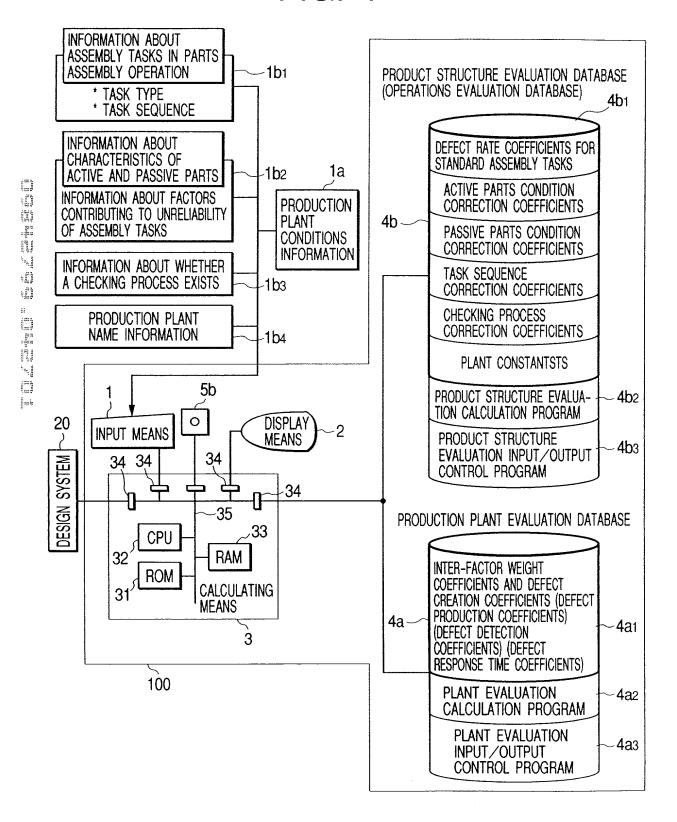


FIG. 5

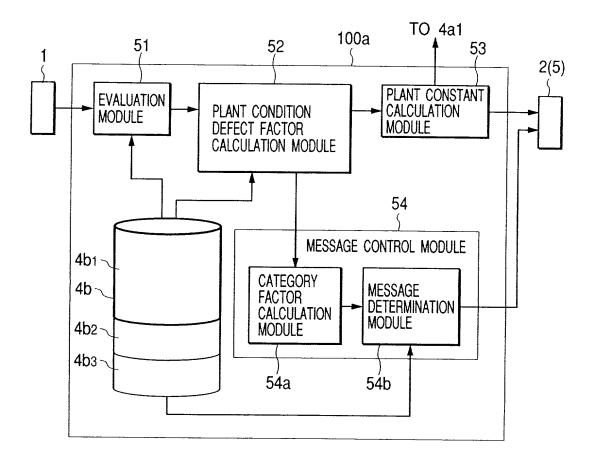




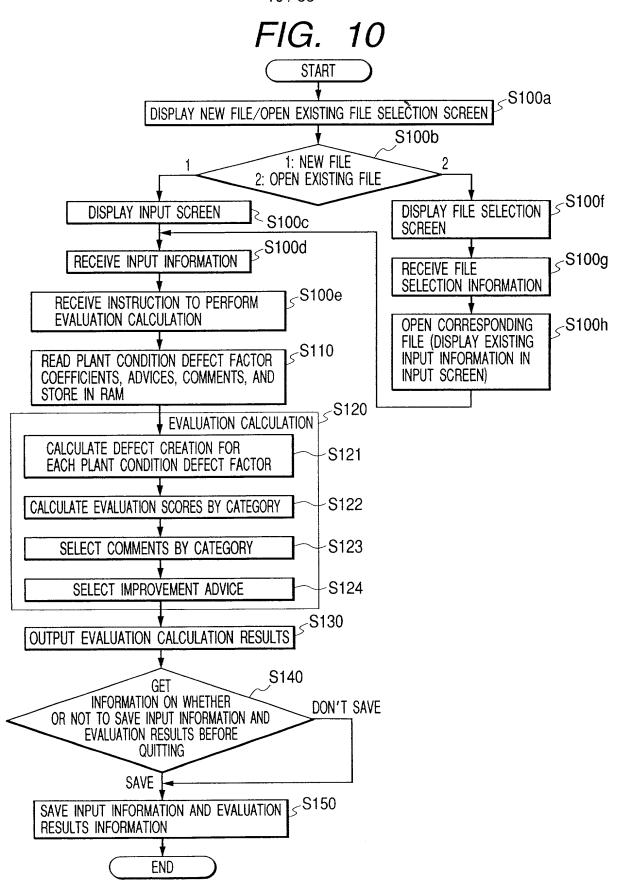


	([Y	_	111			
4TABASE	67	COMMENTS		LEVEL 3	LOW ATTENDANCE. PROCESS ORGANIZATION UNSTABLE. QUALITY CONSISTENCY			NOT ENOUGH EQUIPMENT SUPERVISORS. MAJOR EQUIPMENT RELIABILITY ISSUES.		LOW Lighting. Must re- Evaluate All Lighting.
-UATION DA		COM		LEVEL 2	LOW ATTENDANCE. PROCESS ORGANI- ZATION NEEDS			NOT ENOUGH EQUIPMENT SUPERVISORS. POSSIBLE EQUIPMENT RELIABILITY ISSUES.		LOW LIGHTING. CERTAIN AREAS NEED LOCAL LIGHTING.
4b1: PRODUCTION PLANT EVALUATION DATABASE			EL 3	LONG-TERM PROPOSAL	CLARIFY INDIVIO. & GROUP GOALS. ASSIGN INDIVID. & GROUP RESPONSI- BILITIES.			Implement Equipment Operation Education And Training		need to re- examine over- all lighting (system, Positions, numbers)
RODUCTION		E ADVICE	LEVEL	SHORT-TERM PROPOSAL	SET UP CHECKING PROCESSES FOR KEY PROCESSES			Assign super- Visors for All Equip. (Priority to Key Equip.)		INSTALL LOCAL LIGHTING FOR CERTAIN WORK AREAS.
## ## ## ## ## ## ## ## ## ## ## ## ##	99	RESPONSE	LEVEL 2	LONG-TERM PROPOSAL	EDUCATION FOR A VERSATILE WORKFORCE. CLARIFY GOALS & RESPONSI- BILTITES.			implement Equipment Operation Education And Training		NEED TO RE- EXAMINE OVERALL LIGHTING (FLUORESCENT TYPE)
Hi			E	SHORT-TERM PROPOSAL	ASSIGN WORKERS WITH HIGH ATTENDANCE TO KEY PROCESSES			Assign Supervisors For all Equipment		INSTALL LOCAL LIGHTING FOR CERTAIN U
0.00	650	EFFICIENT/	DEFECT '	TIME COEFFICIENT	C1			-		0
	65b	CREATION COEFFICIENT	DEFECT	DETECTION COEFFICIENT	τ-			2	N	2
Ŧ	65a	DEFECT CI	DEFECT	Production Coefficient	ന			7		2
;	49		ME		Ø			-		-
			LEVEL 3	(LOW)	S<%06			ASSIGNED (LESS THAN 90% OF ALL EQUIPMENT)		900lx>L
:	83		LEVEL 2	(MEDIUM)	97%> S≥90%			ASSIGNED (90% OR MORE OF ALL EQUIPMENT)		1000lx> L≥600lx
			LEVEL 1	(HIGH)	S≥97%			FULLY ASSIGNED		L⊵ 1000lx
	23	PLANT	CONDITION	DEFECT FACTOR	ATTENDANCE (S)			EQUIPMENT SUPERVISORS		LIGHTING (L)
	<u>19</u>	- [TEM		—		1	ω.		55
	8-			ORY	-	ľ		2		4

FIG. 9



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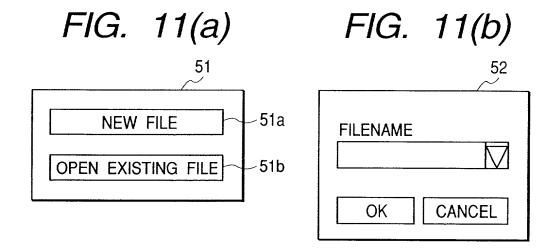
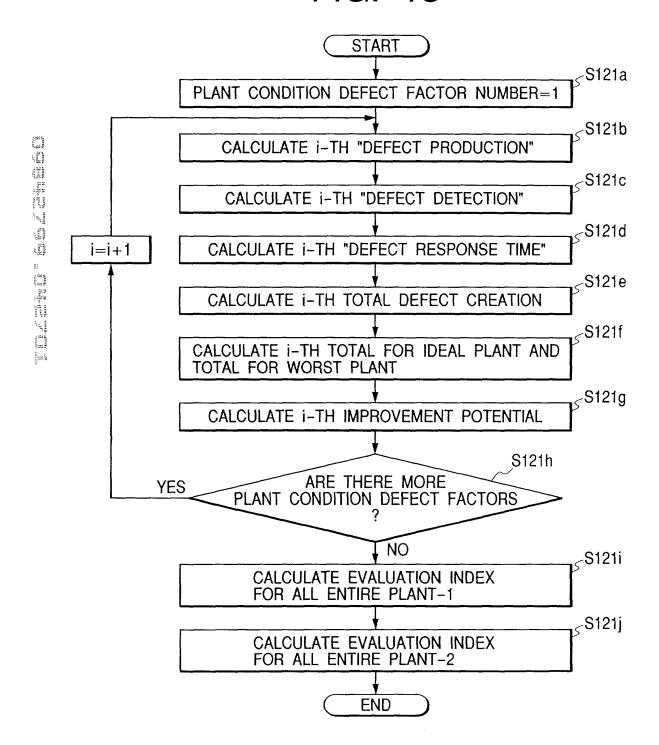


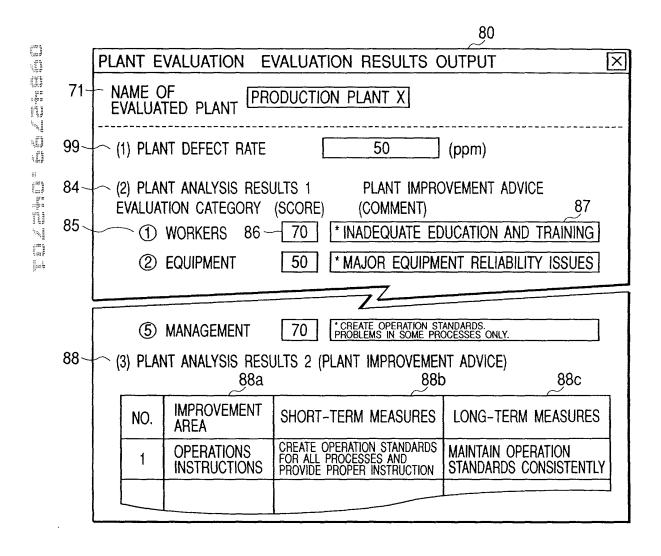
FIG. 12

							70		
	Ы	_ANT_EV	ALL	JATION: PL	ANT (CONDITIONS	S INPUT	×	<u>₹</u>
71-	_!	NAME OF TO EVALU	PL. Jate	ANT PRODU	ICTION	PLANT X	~71		
72–	l CC	ANT ONDITIONS	ر	31 75(62)		76		LESS THAN 97%, AT LEAST 90%	_
60-	_	EVALUATION CATEGORY	NO.	QUESTION	75a	ANSWER 76	Sa _ 76b	_76c	
		1. Workers	1	ATTENDANCE	MORE INFO	97% OR HIGHER	LESS THAN 97%, 90% OR HIGHER	LESS THAN	
									i
		2. EQUIP- MENT	8	EQUIPMENT SUPERVISORS	MORE INFO	O FULLY ASSIGNED	O 90% OR HIGHER ASSIGNED	● LESS THAN 90% ASSIGNED	
		MICITI				7 Z			
		4. PHYSICAL ENVIRON- MENT	13	LIGHTING	MORE INFO	• 1000 lx OR HIGHER	O LESS THAN 1000 600 Ix OR HIGHER	IX, O LESS THAN 600 IX	
						7.7			

FIG. 13



	<u>65</u> c		<u>s</u>		Γ	1	T	П	1	Г	П	1	
	9	FFICIENTS	DEFECT RESPONSE TIME COEFFICIENTS	7		-			0				
G G	92p	DEFECT CREATION COEFFICIENTS	DEFECT DETECTION COEFFICIENTS	-		N		\ \	5		N N		
	65a	DEFECT OF	DEFECT CREATION COEFFICIENTS	က		7		V	7		Y		
	64	INTER-	FACTOR WEIGHT COEFFICIENTS	7		v-			-				
83	93 p	WORST	PLANT DEFECT CREATION	36		15			12				
FIG. 14 ⁹	93a - 33	IDEAL	PLANT DEFECT CREATION	12		5			4				
ĊĖ	92d 92e	/FOR	IMPROVEMENT POTENTIAL	12		0			∞				
2/5		ESULTS /	DEFECT CREATION	24		5			72			286∼	– 98b – 98a
95	920	N CALCULATION RESULTS/FOR	DEFECT RESPONSE TIME	80		-			0			25	
0,	9Zp	REATION CAL	DEFECT DETECTION	4		2			9			42	50ppm
	92a	DEFECT CREATION EVALUATED PLANT	DEFECT CREATION	12		5			ဖ			22	
	9/	CNITCOCO	PLANT	2		-			က				PLANT DEFECT RATE
	<u> 1</u> 5~		NO.	.		8			13			TOTAL	IT DEFE
	g~	C	CATEGORY	~		5			4			(PLAN
					_	 						-86	-66



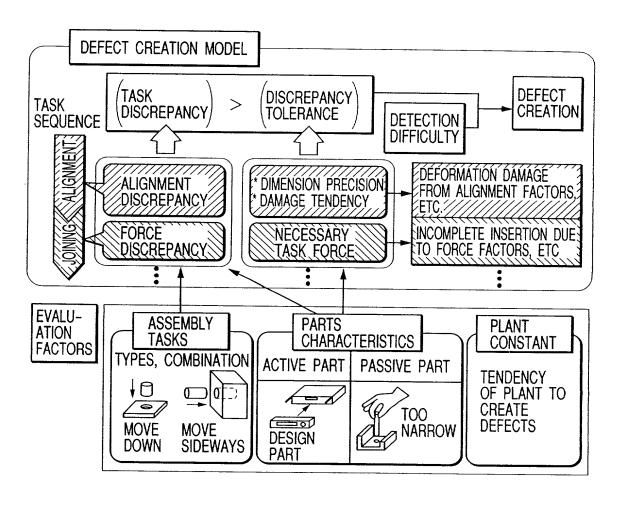
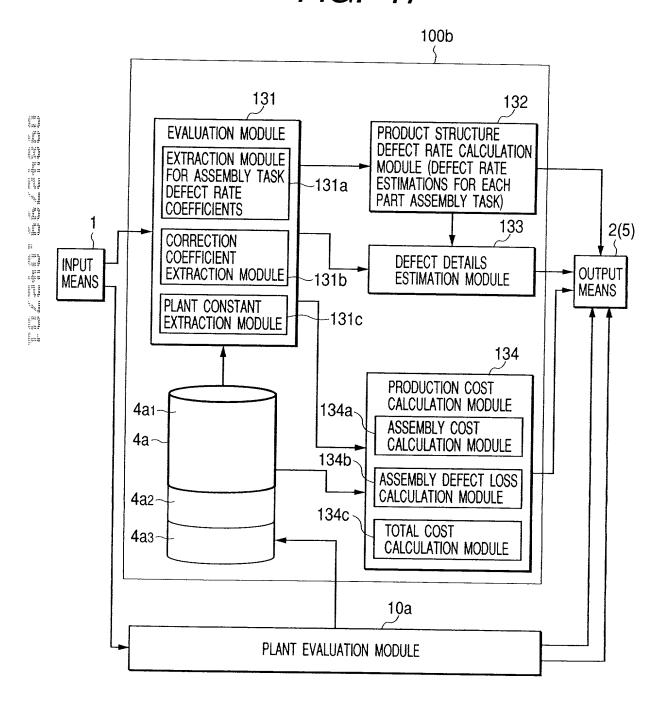


FIG. 17



SAMPLE INPUT SCREEN (PRODUCT SPECIFICATION INPUT SCREEN) FROM QUALITY CALCULATION PROGRAM (PRODUCT STRUCTURE EVALUATION CALCULATION PROGRAM)

ASSEMBLY SYSTEM ENTER PRODUCT ATTRIBUTES	
PRODUCT NAME VCR: A-100 PRODUCT P53001 FIGURE NUMBER	
PRODUCT TYPE ASSEMBLY	DDODIOT DIMENSION (mm)
QUANTITY (g) 4500 UNIT PRICE	PRODUCT DIMENSION (mm) (W) MAX 450 (D) 300 (H) 70
ASSEMBLY PLANT REFERENCE TIME TOI ASSEMBLY PLANT DIVISIONS ASSEMBLY TIME ASSEMBLY PLANT DEFECT RATE	(FOR CALCULATING (REFERENCE DEFECT RATES) (ppm)
DEFECT WARNING LINE	(ppm)
PLANT LOCATION PRODUCTION UNITS (qty) PRODUCTION START DATE PRODUCTION END DATE	(FOR CALCULATING (REFERENCE DEFECT RATES)
	DONE

SAMPLE INPUT SCREEN (PART SPECIFICATION INPUT SCREEN) FROM QUALITY CALCULATION PROGRAM (PRODUCT STRUCTURE EVALUATION CALCULATION PROGRAM)

ASSEMBLY SYSTEM ENTER PART ATTRIBUTES	
PART NAME FRAME ASSEMBLY 1	□ NOT EVALUATED (AEM)
PARTT NUMBER	NOT EVALUATED (AREM)
NUMBER OF IDENTICAL PARTS (SKIP=1)] □ TIGHTENING FLAG □ THREADED FLAG
UNIT PRICE PART TYPE MAX LENGTH OF PART (mm) 450,000 QTY (g	(USE FOR CLASSIFICATION) 500
NOTES	
☐ USER-DEFINED FLAG 1 ☐ USER-SET FLAG 2	□ USER-SET FLAG 3
ASSEMBLY LEVEL PARENT PART NAME NEW PRODUCT	
TIME TOI	LY IF DIFFERENT) DUCT ATTRIBUTE) LY IF DIFFERENT) DUCT ATTRIBUTE)
	LY IF DIFFERENT) DUCT ATTRIBUTE)
	ILATING REFERENCE DEFECT RATES)
#1 NO-TOUCH SURFACE #2 NO-TOUCH SURFACE (PASSIVE PART)	☐ TASKS NOT CONFIRMED
BASIC ELEMENT CORRECTIVE ELEMENT REPEAT REFERENCE TIME RATIO	DELETE TASK DONE

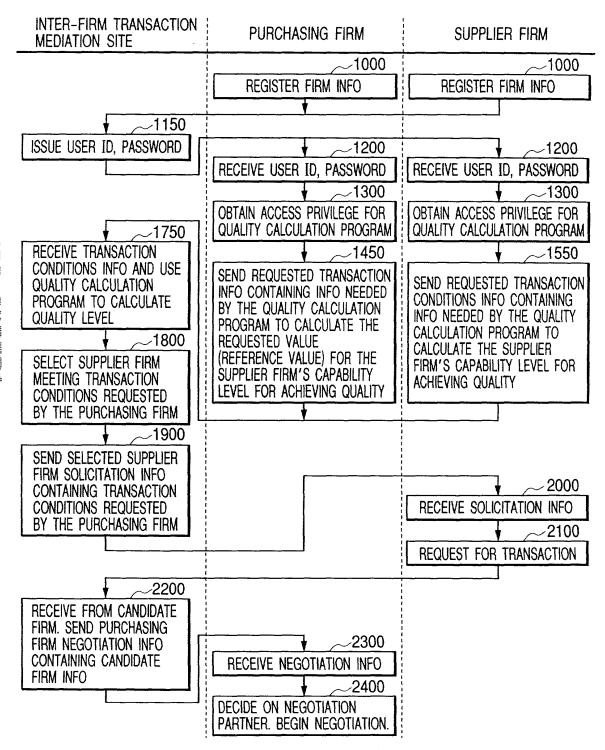
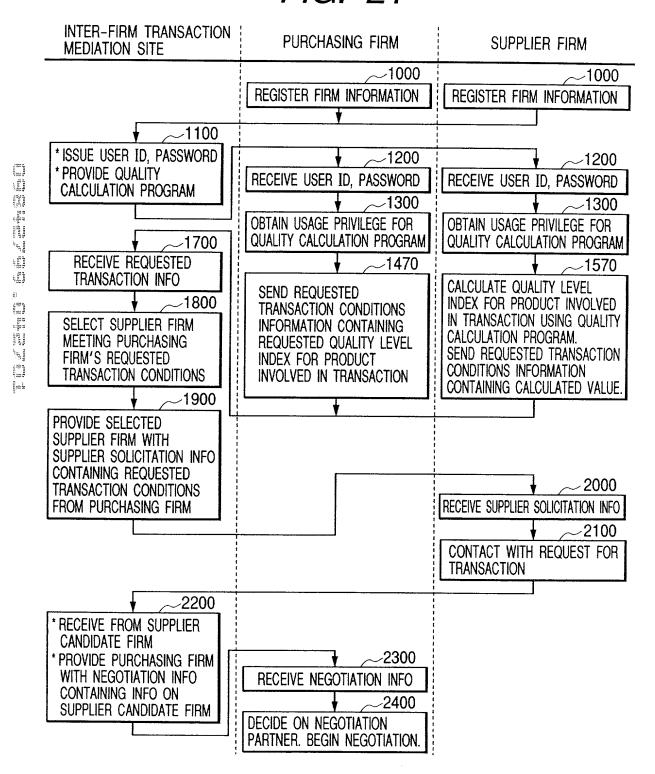
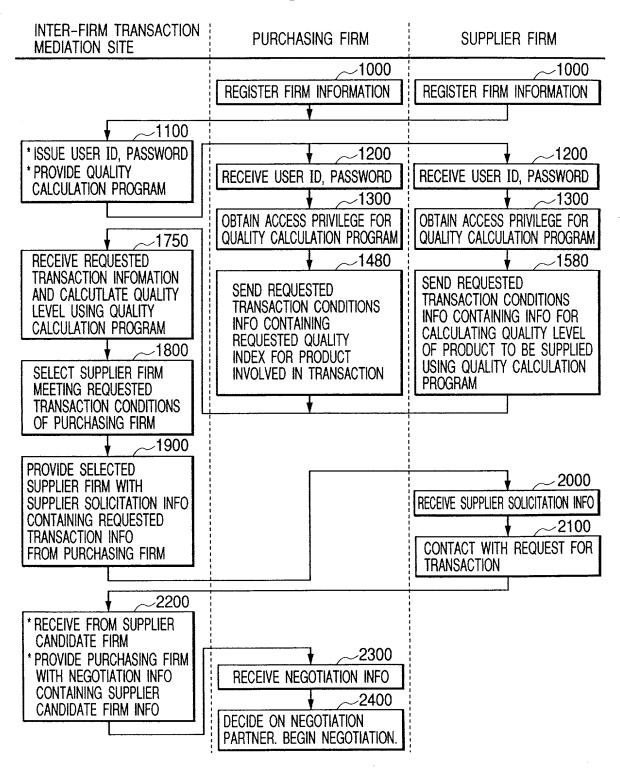
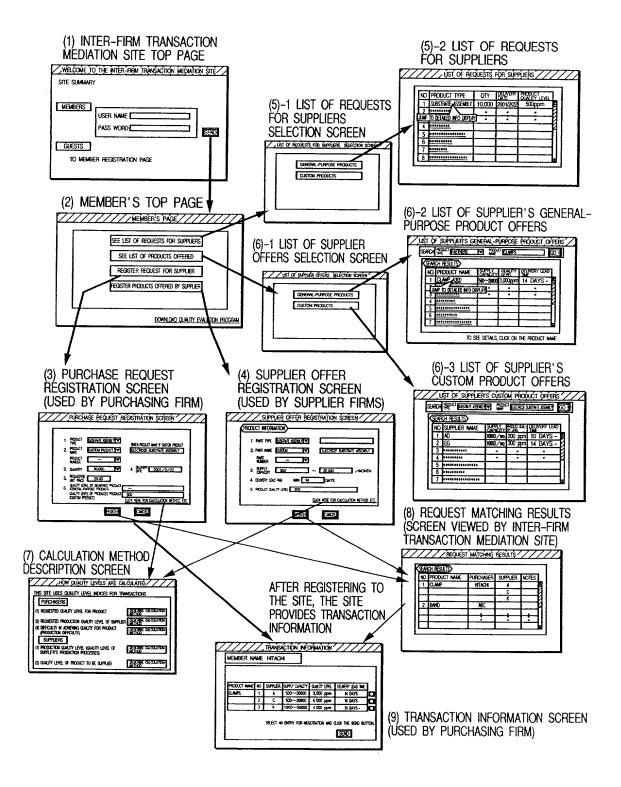


FIG. 21







(1) INTER-FIRM TRANSACTION MEDIATION SITE TOP PAGE

WELCOME TO	THE INTER-FIRM TRANSACTION MEDIATION	ON SITE
SITE SUMMARY		
MEMBERS	USER NAME	
	PASS WORD	SEND
GUESTS TO MEMBE	ER REGISTRATION PAGE	

FIG. 25

(2) INTER-FIRM TRANSACTION MEDIATION SITE MEMBER'S TOP PAGE

SEE LIST OF REQUESTS FOR SUPPLIERS
SEE LIST OF PRODUCTS OFFERED
REGISTER REQUEST FOR SUPPLIER
REGISTER PRODUCTS OFFERED BY SUPPLIER

(3) INTER-FIRM TRANSACTION MEDIATION SITE PURCHASE REQUEST REGISTRATION SCREEN (USED BY PURCHASING FIRMS)

	PURCHASE REQUEST REGISTRATION SCREEN
1. 2.	PRODUCT CUSTOM PRODUCT ELECTRODE SUBSTRATE ASSEMBLY PRODUCT
3. 5. 6.	REQUESTED 20.00 UNIT PRICE 20.00 OUALITY LEVEL OF DELMERED PRODUCT
0.	(GENERAL-PURPOSE PRODUCT) OUALITY LEVEL OF PRODUCED PRODUCT 500 (CUSTOM PRODUCT) CLICK HERE FOR CALCULATION METHOD, ETC.
	REGISTER

FIG. 27

(4) INTER-FIRM TRANSACTION MEDIATION SITE SUPPLIER OFFER REGISTRATION SCREEN (USED BY SUPPLIER FIRMS)

SUPPLIER OFFER REGISTRATION SCREEN
PRODUCT INFORMATION
1. PART TYPE SUBSTRATE ASSEMBLY ▼
2. PART NAME CUSTOM ▼ ELECTRODE SUBSTRATE ASSEMBLY
PART ▼
3. SUPPLY 500 ~ 20,000 ✓MONTH
4. DELIVERY LEAD TIME MIN 14 DAYS
5. PRODUCT QUALITY LEVEL 300
CLICK HERE FOR CALCULATION METHOD, ETC.
REGISTER CANCEL

(5)-1 LIST OF REQUESTS FOR SUPPLIERS SELECTION SCREEN

LIST OF RE	QUESTS FOR SUPPLIERS SELECTION SCREEN
	GENERAL-PURPOSE PRODUCTS
	CUSTOM PRODUCTS

FIG. 29

(5)-2 LIST OF REQUESTS FOR SUPPLIERS

NO.	PRODUCT TYPE	QTY	DELIVERY DATE	PRODUCT QUALITY LEVEL	
1	SUBSTRATE ASSEMBLY	10,000	2001/2/22		V
2	*******	<u> </u>	•	•	
JUMP	TO DETAILED INFO DISPLA	Y	•	•	
4	******				
5	******				7
6	******				11
7	******				11
8	******				┧

(6)-1 LIST OF SUPPLIER OFFERS SELECTION SCREEN

 ST OF SUPPLIER OFFERS SELECTION SCREEN
GENERAL-PURPOSE PRODUCTS
CUSTOM PRODUCTS

FIG. 31

(6)-2 LIST OF SUPPLIER'S GENERAL-PURPOSE PRODUCT OFFERS

LIST OF SUPPLIER'S GENERAL-PURPOSE PRODUCT OFFERS
SEARCH PRODUCT FASTNERS ▼ PRODUCT CLAMPS GO !
(SEARCH RESULTS)
NO. PRODUCT NAME SUPPLY QUALITY DELIVERY LEAD TIME
1 CLAMP A300 500~20000 3,000ppm 14 DAYS - 3
JUMP TO DETAILED INFO DISPLAY
1 3 ********** • • • • • • • • • • • • •
5 *************************************
6 ******
7 **********
TO SEE DETAILS, CLICK ON THE PRODUCT NAME

(6)-3 LIST OF SUPPLIER'S CUSTOM PRODUCT OFFERS

SE	ARCH	PRODUCT SUBSTRATE ASSEMBL	Y ▼ PRODU NAME	ELECTRODE S	SUBSTRATE ASSEMBLY	GO
K	SEAR	CH RESULTS>				
	NO.	SUPPLIER NAME	SUPPLY CAPACITY	PRODUCT QUAL- ITY LEVEL	DELIVERY LEAD TIME	1
	1	AD	10000/mo.	200 ppm	10 DAYS -	V
	2	EG	10000/mo.	300 ppm	14 DAYS -	
	3	*****	•	•	•	
	4	*****	•	•	•	
	5	******				11
	6	*****				11
	7	******				\mathbb{H}

FIG. 33

(7) CALCULATION METHOD DESCRIPTION SCREEN

HOW QUALITY LEVELS ARE CALC	CULATED////////////////////////////////////
THIS SITE USES QUALITY LEVEL INDICES FOR TRAN	ISACTIONS
PURCHASERS	
(1) REQUESTED QUALITY LEVEL FOR PRODUCT	DESCRIBE CALCULATION METHOD
(2) REQUESTED PRODUCTION QUALITY LEVEL OF SUPPLIER	DESCRIBE CALCULATION METHOD
(3) DIFFICULTY IN ACHIEVING QUALITY FOR PRODUCT PRODUCTION DIFFICULTY)	DESCRIBE CALCULATION METHOD
SUPPLIERS	
(1) PRODUCTION QUALITY LEVEL (QUALITY LEVEL OF SUPPLIER'S PRODUCTION PROCESSES)	DESCRIBE CALCULATION METHOD
(2) QUALITY LEVEL OF PRODUCT TO BE SUPPLIED	DESCRIBE CALCULATION METHOD

(8) REQUEST MATCHING RESULTS

NO. F	PRODUCT NAME	PURCHASER	SUPPLIER	NOTES	
1 C	CLAMP	HITACHI	A		Y
			С		
			K		
2 B	BAND	ABC			Ø
		•	•	•	$\ \ $
		1 .		:]

FIG. 35

TRANSACTION INFORMATION SCREEN

PRODUCT	_ MINNAT	NO.	CHOOLIED	CUIDDLY CADACITY	OUNITY LOVE	DELINEDVIEND THE
CLAMPS	INAME	NU.	SUPPLIER	SUPPLY CAPACITY 500~20000	QUALITY LEVEL	DELIVERY LEAD TIME
CLAMPS			A		3,000 ppm	14 DAYS -
		2	С	500~20000	6,000 ppm	10 DAYS -
		3	K	1000~50000	4,000 ppm	30 DAYS -

FLOW OF OPERATIONS BEFORE TRANSACTION STARTS (WHEN ESTIMATES ARE POSTED BY PURCHASING FIRM)

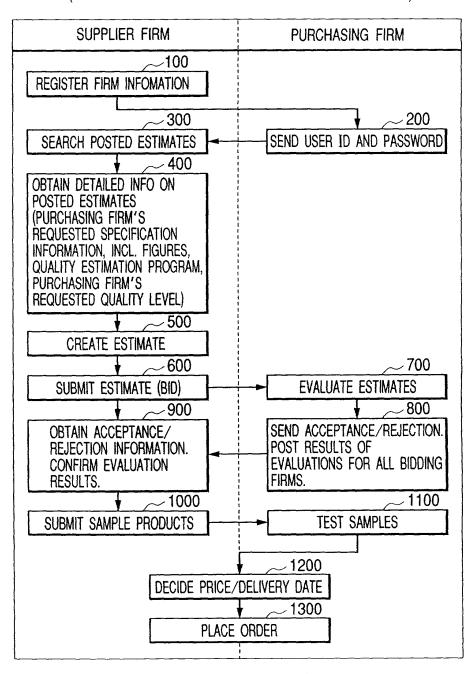
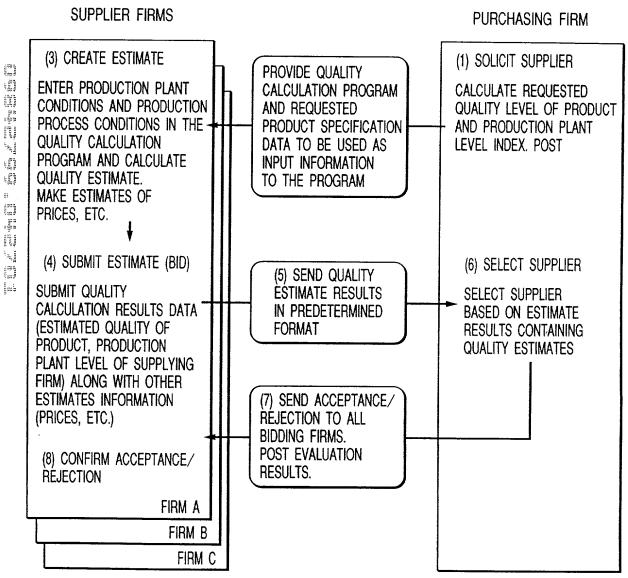
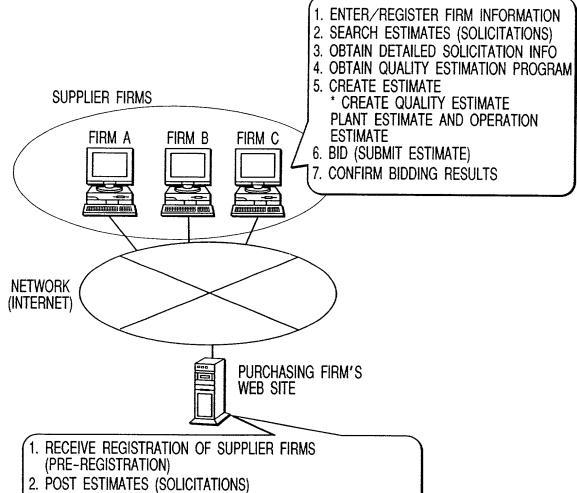


FIG. 37





- 3. PROVIDE DETAILED INFORMATION FOR EACH SOLICITATION (REGISTERED FIRMS ONLY)
 - INFORMATION ABOUT REQUESTED SPECIFICATIONS (FIGURES, SPECIFICATION DATA FOR QUALITY ESTIMATION PROGRAM, ETC.)
- 4. PROVIDE QUALITY ESTIMATION PROGRAM
- 5. RECEIVE BIDS (RECEIVE ESTIMATES)
- 6. POST BIDDING RESULTS (ONLY TO BIDDING FIRMS) (QUALITY ESTIMATION DATA, PRICES, DELIVERY DATES, ETC.

